In re Application of Shen et al., S.N. 10/768,825 Filed: 02/27/2004 Attorney Docket No. LA0100

AMENDED CLAIMS

What is claimed:

- (Currently Amended) A method of making glycosides using a non-cryogenic process comprising, in a continuous process, the steps of:
 - (a) lithiating an aromatic reactant having a leaving group using a lithium reagent in a first microreactor under at non-cryogenic conditions temperatures to form a lithiated anion species; and
 - (b) coupling the lithlated anion species with a carbonyl substituted reactant to form a glycoside.
- (Original) The method according to claim 1, wherein said lithiating step is performed at a temperature of from about -10°C to about 20°C.
- (Original) The method according to claim 2, wherein said lithiating step is performed at a temperature of from about -10°C to about 5°C.
- (Original) The method according to claim 1, wherein the residence time in said first microreactor is from about 2 seconds to about 3 seconds.
- 5. (Original) The method according to claim 1, wherein said aromatic reactant is a halide.
- (Original) The method according to claim 1, where said lithium reagent is selected from the group consisting of n-BuLi and t-BuLi.
- (Original) The method according to claim 1, wherein a yield of said glycoside is greater than about 80%.
- 8. (Currently Amended) The method according to claim 1, wherein said coupling step is performed under at cryogenic conditions temperatures.
- (Original) The method according to claim 8, wherein said coupling step is performed at a temperature of less than about -80°C.
- (Original) The method according to claim 1, wherein said coupling step is performed in a second microreactor under non-cryogenic conditions.

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- 11. (Original) The method according to claim 10, wherein said coupling step is performed at a temperature of from about -20°C to about 20°C.
- 12. (Original) The method according to claim 11, wherein said coupling step is performed at a temperature of about -10°C.
- 13. (Original) The method according to claim 10, wherein the residence time in said second microreactor is from about 2 seconds to about 3 seconds.
- 14. (Original) The method according to claim 10, wherein a yield of said glycoside is greater than about 70%.
- 15. (Currently Amended) A method of making glycosides using a non-cryogenic process comprising, in a continuous process, the steps of:
 - (a) lithiating an aromatic reactant having a leaving group using a lithium reagent to form a lithiated anion species; and
 - (b) coupling the lithiated anion species with a carbonyl substituted reactant according to formula IV

IV

in a microreactor under non-cryogenic conditions to form a glycoside.

- 16. (Original) The method according to claim 15, wherein said coupling step is performed at a temperature of from about -10°C to about 20°C
- 17. (Original) The method according to claim 15, wherein said coupling step is performed at a temperature of from about -10°C to about 5°C.
- 18. (Original) The method according to claim 15, wherein the residence time in said microreactor is from about 2 seconds to about 3 seconds.

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- (Currently Amended) The method according to claim 15, wherein said lithlating step is performed under at cryogenic conditions temperatures.
- (Original) The method according to claim 1, further comprising the step of :(c) deprotecting the glycoside.
- 21. (Original) A glycoside formed by the method of claim 1.
- 22. (Currently Amended) A method of continuous process for making a glycoside having the general structural formula [I]:

wherein: R_1 is hydrogen, NO_2 , OR_4 , a halogen, or a substituted or non-substituted alkyl, aryl, or heterocycle; R_2 is a substituted or non-substituted alkyl group; wherein R_4 is a substituted or non-substituted alkyl or aryl; X_1 is a heteroatom; and PG is a protective group,

the method including the steps of:

(a) reacting an aromatic reactant having general structural formula [II]:

$$X_2$$
 $[II]$

wherein: R_1 is as defined previously and X_2 is a leaving group, in a first microreactor with an organo lithium reagent to form a lithiated anion species having general structural formula [III]:

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wherein R1 is as defined previously, and

(b) coupling the lithiated anion species [III] with a carbonyl substituted compound having general structural formula [IV]:

wherein: R_2 , X_1 and PG are as described previously, to form the compound having general structural formula [I].

- 23. (Original) The method of claim 22 wherein the lithlating step is performed at a temperature of from about -10°C to 20°C.
- 24. (Currently Amended) The method of claim 23 wherein the coupling step is performed in a second microreactor under at non-cryogenic conditions temperatures.
- 25. (Original) The method of claim 23 wherein the lithlating step is conducted in a solvent selected from THF/toluene or THF/heptane.
- (Currently Amended) The method of claim 23 wherein the coupling step is performed in a second microreactor under at non-cryogenic conditions temperatures.
- 27. (Original) The method of claim 26 wherein the coupling step is performed at a temperature of from about -20°C to 20°C.